

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start		Rating **	A	Issue No.	57
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD0501_01_f_2014_57				
Comment Code					
Inspector Comment					
District has the O&M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	58
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD0501_01_s_2012_58				
Comment Code					
Inspector Comment					
RD 501 has emergency supplies in storage.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start		Rating **	A	Issue No.	59		
LM End		Issue Type +	Ma	Location *			
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				o		o
					o		o
DWR ID	DWR_RD0501_01_s_2012_59						
Comment Code							
Inspector Comment							
Crew members have been trained and are prepared for a flood.							

No Photos

LM Start	0.31	Rating **	A/W	Issue No.	28
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.250340 °	38.250340 °
				-121.603133 °	-121.603133 °
DWR ID	DWR_RD0501_01_f_2017_28				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees at landside toe to allow inspection and access.					

Photo 1 of 1 : SP\_2018\_RD0501\_169\_28\_20180305\_00005.jpg



Trim trees at landside toe to allow inspection and access.

LM Start	0.70	Rating **	M	Issue No.	71
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.244667 °	38.237470 °
				-121.602967 °	-121.604418 °
DWR ID	DWR_RD0501_01_s_2012_71				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are rodents present in this area, district need to place bait stations in this area. Seveeral rodents observed on 10/24/17.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.76	Rating **	M	Issue No.	29
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.243815 °	38.240257 °
				-121.603077 °	-121.603873 °
DWR ID	DWR_RD0501_01_f_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Landside slope is covered in blackberry vines. Should be removed to allow inspection and access.					

Photo 1 of 1 : SP\_2018\_RD0501\_169\_29\_20180305\_00006.jpg



Landside slope is covered in blackberry vines. Should be removed to allow inspection and access.

LM Start	1.01	Rating **	M	Issue No.	31
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.240222 °	38.238918 °
				-121.603887 °	-121.604338 °
DWR ID	DWR_RD0501_01_f_2017_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Waterside vegetation should be thinned/removed to 20' from crown to allow inspection and access.					

Photo 1 of 1 : SP\_2018\_RD0501\_169\_31\_20180305\_00008.jpg



Waterside vegetation should be thinned/removed to 20' from crown to allow inspection and access.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	2.55	Rating **	M	Issue No.	32
LM End	2.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.218470 °	38.217875 °
				-121.605105 °	-121.605532 °
DWR ID	DWR_RD0501_01_s_2012_32				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Continue trimming the tree at this location to at least five feet above the ground.					

No Photos

LM Start	2.67	Rating **	M	Issue No.	34
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.217030 °	38.216408 °
				-121.606303 °	-121.607057 °
DWR ID	DWR_RD0501_01_s_2012_34				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the trees to at least five feet above the ground.					

No Photos

LM Start	2.85	Rating **	M	Issue No.	3
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.214838 °	38.214075 °
				-121.608129 °	-121.608750 °
DWR ID	DWR_RD0501_01_f_2016_3				
Comment Code					
Inspector Comment					
2009 - Rock is starting to unravel, probably from a tree pop-out, hard toe. 2015: No observed changes. [2015 Site ID: STM_18-9_R]					

Photo 1 of 1 : SP\_2018\_RD0501\_169\_3\_20180305\_00003.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



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### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.73	Rating **	A/W	Issue No.	974 (cont)	
LM End	4.12	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.202997 °		38.197778 °
				-121.613450 °		-121.616080 °
DWR ID	DWR_RD0501_01_s_2012_974					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Vegetation has been cleared to 20 feet from crown.						

Photo 2 of 2 : SP\_2018\_RD0501\_169\_974\_20180305\_00016.jpg



RD 501 Levee mile 3.73-4.12 wild tree growth and vegetation blocking view of the levee slope.

LM Start	3.94	Rating **	A/W	Issue No.	33
LM End	4.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.200083 °	38.199057 °
				-121.614642 °	-121.615227 °
DWR ID	DWR_RD0501_01_f_2017_33				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Willows have been thinned to allow limited visibility. Should continue to reduce and/or remove this vegetation to increase visibility and access to slope and toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.38	Rating **	M	Issue No.	19
LM End	4.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195332 °	38.195310 °
				-121.619749 °	-121.619801 °
DWR ID	DWR_RD0501_01_f_2017_19				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.64	Rating **	M	Issue No.	35
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194463 °	38.194463 °
				-121.624310 °	-121.624310 °
DWR ID	DWR_RD0501_01_f_2017_35				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Very large mounds of blackberry vines prohibit inspection and access. Should be removed.					

Photo 1 of 1 : SP\_2018\_RD0501\_169\_35\_20180305\_00009.jpg



Very large mounds of blackberry vines prohibit inspection and access. Should be removed.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.95	Rating **	M	Issue No.	977
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.195057 °	38.195068 °
				-121.629965 °	-121.630173 °
DWR ID	DWR_RD0501_01_s_2012_977				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the equipment from the 10 foot easement.					

No Photos

LM Start	5.20	Rating **	A/W	Issue No.	36
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194288 °	38.194288 °
				-121.634262 °	-121.634262 °
DWR ID	DWR_RD0501_01_f_2017_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Willows and blackberries are blocking inspection and access to toe. Should be thined or removed.					

No Photos

LM Start	5.27	Rating **	A/W	Issue No.	65
LM End	5.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.193805 °	38.192457 °
				-121.635391 °	-121.637997 °
DWR ID	DWR_RD0501_01_f_2012_65				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild vegetation has been mowed to 20 feet from crown.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.39	Rating **	A/W	Issue No.	978
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.192878 °	38.192588 °
				-121.637332 °	-121.637802 °
DWR ID	DWR_RD0501_01_f_2013_978				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Some triming of these willow trees is apparent, but should continue until inspection and access are restored.					

No Photos

LM Start	5.71	Rating **	A/W	Issue No.	24
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.190590 °	38.190246 °
				-121.642468 °	-121.643164 °
DWR ID	DWR_RD0501_01_s_2012_24				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild growth is cleared to 20 feet from crown.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.94	Rating **	M	Issue No.	39
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188283 °	38.186090 °
				-121.645398 °	-121.648027 °
DWR ID	DWR_RD0501_01_f_2017_39				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Heavy blackberry growth along toe should be removed to allow inspection and access to toe. LMA reports ditch near toe inhibits ability to mow.					

Photo 1 of 1 : SP\_2018\_RD0501\_169\_39\_20180305\_00011.jpg



Heavy blackberry growth along toe, possibly over fence, should be removed to allow inspection and access to toe.

LM Start	6.15	Rating **	M	Issue No.	40
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.186090 °	38.186090 °
				-121.648022 °	-121.648022 °
DWR ID	DWR_RD0501_01_f_2017_40				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.59	Rating **	M	Issue No.	23
LM End	6.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.184136 °	38.184040 °
				-121.655762 °	-121.656291 °
DWR ID	DWR_RD0501_01_s_2012_23				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees still need to be trimmed.					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.10	Rating **	M	Issue No.	1
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.199128 °	38.200146 °
				-121.655881 °	-121.655638 °
DWR ID	DWR_RD0501_02_f_2016_1				
Comment Code					
Inspector Comment					
2005 - Large vertical sections due to wave wash. New stone dumped on the bank with exposed geotextile. Cohesive toe has thin weak stratigraphic unit that is washing out. 2006 - Partially repaired, but 100 ft in the middle of the reach has exposed filter fabric and stone riprap is gone. 2010 - Site extended downstream to include new erosion pocket. 2015: No observed changes. [2015 Site ID: CHS_15-9_L]					

Photo 1 of 1 : SP\_2018\_RD0501\_170\_1\_20180305\_00001.jpg



USACE 2013 Photo #1

LM Start	1.25	Rating **	M	Issue No.	27
LM End	1.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.201143 °	38.201143 °
				-121.655169 °	-121.655169 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44753					
DS_ID:21085					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 20-inch coated steel gravity drainage pipe through the levee, 15.5 feet below the crown. Pipe exposed along the waterside (WS) slope. Steel plate welded over end. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 1.4)].					
FS Date: 4/23/2015					

Photo 1 of 3 : UCIP\_SP\_2018\_44753\_73955.jpg



20-inch pipe with welded steel plate over end on WS toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.25	Rating **	M	Issue No.	27 (cont)
LM End	1.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.201143 °	38.201143 °
				-121.655169 °	-121.655169 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44753					
DS_ID:21085					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 20-inch coated steel gravity drainage pipe through the levee, 15.5 feet below the crown. Pipe exposed along the waterside (WS) slope. Steel plate welded over end. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 1.4)].					
FS Date: 4/23/2015					

LM Start	1.25	Rating **	M	Issue No.	27 (cont)
LM End	1.25	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_44753\_73954.jpg



Hole in pipe at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_44753\_73953.jpg



Inside hole in pipe at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.80	Rating **	M	Issue No.	29
LM End	1.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.208874 °	38.208874 °
				-121.655505 °	-121.655505 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:40489  
DS\_ID:21042  
EP\_NO: 15477  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD\_STRUCT\_DESC: 42-inch steel drainage discharge pipe through the levee, 6.5 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on the landside (LS). Pipe exposed along both slopes. (Plans to replace two pipes with two 36-inch discharge pipes through the levee authorized under Permit No. 15477, 1990 - Reclamation District No. 501 [RD0501]). Permit does not match this crossing. Recommend deletion of permit. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.0)].  
FS Date: 6/7/2013

LM Start	<b>1.80</b>	Rating **	M	Issue No.	<b>29 (cont)</b>
LM End	<b>1.80</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_40489\_33358.jpg



Overview of crown, looking downstream.

Photo 2 of 3 : UCIP\_SP\_2018\_40489\_33359.jpg



One 42-inch steel pile with siphon break on waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	3.41	Rating **	M	Issue No.	16
LM End	3.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225823 °	38.225987 °
				-121.672837 °	-121.672870 °
DWR ID	DWR_RD0501_02_s_2012_16				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up the tree on the landside slope.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	1.48	Rating **	M	Issue No.	28
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.244293 °	38.244293 °
				-121.657843 °	-121.657843 °
DWR ID	DWR_RD0501_03_f_2017_28				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim/thin willows to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : SP\_2018\_RD0501\_171\_28\_20180305\_00001.jpg



Trim/thin willows to allow inspection and access to landside slope and toe.

LM Start	1.56	Rating **	M	Issue No.	29
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.245445 °	38.245445 °
				-121.658035 °	-121.658035 °
DWR ID	DWR_RD0501_03_f_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove berry vines at landside toe to allow inspection and access.					

Photo 1 of 1 : SP\_2018\_RD0501\_171\_29\_20180305\_00002.jpg



Remove berry vines at landside toe to allow inspection and access.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	1.89	Rating **	M	Issue No.	30
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.249428 °	38.249428 °
				-121.656310 °	-121.656310 °
DWR ID	DWR_RD0501_03_f_2017_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove/manage landside vegetation and berry vines to allow inspection and access to slope and toe.					

Photo 1 of 1 : SP\_2018\_RD0501\_171\_30\_20180305\_00003.jpg



Remove/manage landside vegetation and berry vines to allow inspection and access to slope and toe.

LM Start	2.44	Rating **	M	Issue No.	32
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.255070 °	38.255070 °
				-121.651630 °	-121.651630 °
DWR ID	DWR_RD0501_03_f_2017_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick berry vines at landside toe to allow inspection and access.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.55	Rating **	M	Issue No.	15
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.266666 °	38.266857 °
				-121.641475 °	-121.641280 °
DWR ID	DWR_RD0501_03_s_2012_15				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up tree on landside slope.					

No Photos

LM Start	3.62	Rating **	M	Issue No.	22
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.267485 °	38.267578 °
				-121.640667 °	-121.640507 °
DWR ID	DWR_RD0501_03_s_2012_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Thin trees to allow the visibility of the ground.					

No Photos

LM Start	3.68	Rating **	M	Issue No.	3	
LM End	3.68	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.268218 °		38.268218 °
				-121.640418 °		-121.640418 °
DWR ID	DWR_RD0501_03_f_2017_3					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.75	Rating **	M	Issue No.	33
LM End	3.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.269187 °	38.269187 °
				-121.640775 °	-121.640775 °
DWR ID	DWR_RD0501_03_f_2017_33				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.47	Rating **	M	Issue No.	34
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277918 °	38.281507 °
				-121.637670 °	-121.641595 °
DWR ID	DWR_RD0501_03_f_2017_34				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove berry vines on landside slope and toe to allow inspection and access.					

Photo 1 of 1 : SP\_2018\_RD0501\_171\_34\_20180305\_00005.jpg



Remove berry vines on landside slope and toe to allow inspection and access.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.09	Rating **	M	Issue No.	37
LM End	5.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.284917 °	38.284917 °
				-121.643243 °	-121.643243 °
DWR ID	DWR_RD0501_03_f_2017_37				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim/thin large willow to allow inspection and access to landside slope and toe.					

No Photos

LM Start	5.11	Rating **	M	Issue No.	38
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285115 °	38.285115 °
				-121.643227 °	-121.643227 °
DWR ID	DWR_RD0501_03_f_2017_38				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick berry vines from landside slope and toe to allow inspection and access.					

No Photos

LM Start	6.14	Rating **	M	Issue No.	40
LM End	6.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.291563 °	38.291563 °
				-121.632068 °	-121.632068 °
DWR ID	DWR_RD0501_03_f_2017_40				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD0501\_171\_40\_20180305\_00008.jpg



Trim/thin trees on waterside to allow inspection and access.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.61	Rating **	M	Issue No.	39
LM End	6.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.290313 °	38.290313 °
				-121.623785 °	-121.623785 °
DWR ID	DWR_RD0501_03_f_2016_39				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Evidence of significant rodent activity at this location. Exterminate the rodents and backfill holes.					

Photo 1 of 1 : SP\_2018\_RD0501\_171\_39\_20180305\_00007.jpg



Evidence of significant rodent activity at this location. Exterminate the rodents and backfill holes.

LM Start	7.58	Rating **	M	Issue No.	43
LM End	7.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.286222 °	38.286222 °
				-121.608127 °	-121.608127 °
DWR ID	DWR_RD0501_03_f_2017_43				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	0.84	Rating **	M	Issue No.	11
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.274615 °	38.274615 °
				-121.602718 °	-121.602718 °
DWR ID	DWR_RD0501_04_f_2017_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick blackberries at landside toe to allow inspection and access.					

Photo 1 of 1 : SP\_2018\_RD0501\_172\_11\_20180313\_00030.jpg



Thick blackberries should be removed.

LM Start	1.64	Rating **	M	Issue No.	14
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.263587 °	38.262028 °
				-121.602068 °	-121.601688 °
DWR ID	DWR_RD0501_04_f_2017_14				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees and undergrowth to allow inspection and access to landside slope and toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	2.15	Rating **	M	Issue No.	13
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.256275 °	38.255990 °
				-121.600933 °	-121.601015 °
DWR ID	DWR_RD0501_04_s_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Thin out the trees along levee mile 2.15-2.17 and trim them up at least 5-foot above the ground.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement